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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/963,839	09/26/2001	Haruo Hyodo	10417-100001	9344	
26211 7:	590 03/05/2003				
FISH & RICHARDSON P.C.			EXAMINER		
45 ROCKEFELLER PLAZA, SUITE 2800 NEW YORK, NY 10111		800	HOANG, QI	HOANG, QUOC DINH	
			ART UNIT	PAPER NUMBER	
		2818			
		DATE MAILED: 03/05/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Comment	09/963,839	HYODO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Quoc D Hoang	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspond nce addr ss Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) Responsive to communication(s) filed on 12 L	December 2002 .					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

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#### **DETAILED ACTION**

### Notice to Applicants

- 1. Applicant's papers filed on 12/12/2002 has been entered and made of record as Paper No. 7. Claims 1-7 are pending in this application.
  - The remarks have been considered.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-7 are rejected under 35 U.S.C 102(e) as anticipated over Mizuno et al., (US Patent 6,100,108).

Regarding claims 1, Mizuno et al., Figs. I -10, and related text on col. 1-11 which discloses a semiconductor device comprising: a supporting substrate 2 made of insulating material (col. 4, lines 12-43 and Fig. 3); a conductive pattern 10 provided on a surface of the supporting substrate 2 (col. 4, lines 12-43 and Fig. 3); an external connecting terminal 9 provided on a back surface of the supporting substrate 2 and electrically connected to the conductive patterns 10 (col. 4, lines 12-43 and Fig. 3); a circuit element 4 14 provided on the conductive pattern 10 (col. 4, lines 12-43 and Fig. 3); and a glass plate 6 that covers the circuit element 4 14 and that forms a hollow airtight

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portion between the supporting substrate 2 and the glass plate 6 (col. 4, lines 12-43 and Fig. 3).

Regarding claim 2, Mizuno et al., discloses the glass plate 6 includes a transparent glass plate (col. 4, lines 36-41 and Fig. 3).

Regarding claim 3, Mizuno et al., discloses the supporting substrate 2 includes a flat supporting portion 2b-2e and a column portion 2a, and the conductive patterns 10 are provided on the flat supporting portion (col. 4, lines 36-41 and Fig. 3).

Regarding claim 4, Mizuno et al., discloses the glass plate 6 is adhered onto the column portion 2a (col. 4, lines 36-41 and Fig. 3).

Regarding claim 5, Mizuno et al., discloses a via hole 11 is provided in the supporting substrate 2, and the circuit element 4 14 and the external connecting terminals 9 are electrically connected through the via hole 11 (col. 4, lines 36-41 and Fig. 3).

Regarding claims 6-7, Mizuno et al., discloses the circuit element is formed of one of a semiconductor element 4 and a fuse element 14, wherein the fuse element 14 is formed of a. bonding wire (col. 4, lines 36-41 and Fig. 3).

### Response to Arguments

4. Applicants' arguments filed on 12/12/2002 have been fully considered but they are not persuasive for at least the following reasons.

Applicant's argument concerns that cited reference Mizuno's semiconductor device do not teach the cap 6 is formed from glass. The examiner disagrees. Clearly in

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col. 1, lines 35-67, the glass cap or glass plate has been used.

### Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc Hoang whose telephone number is (703) 306-5795. The examiner can normally be reached on Monday-Friday from 8.00 AM to 5.00 PM.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone numbers of the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Quoc Hoang

Patent examiner/AU 2818.

HOAIHO
PRIMARY EXAMINER